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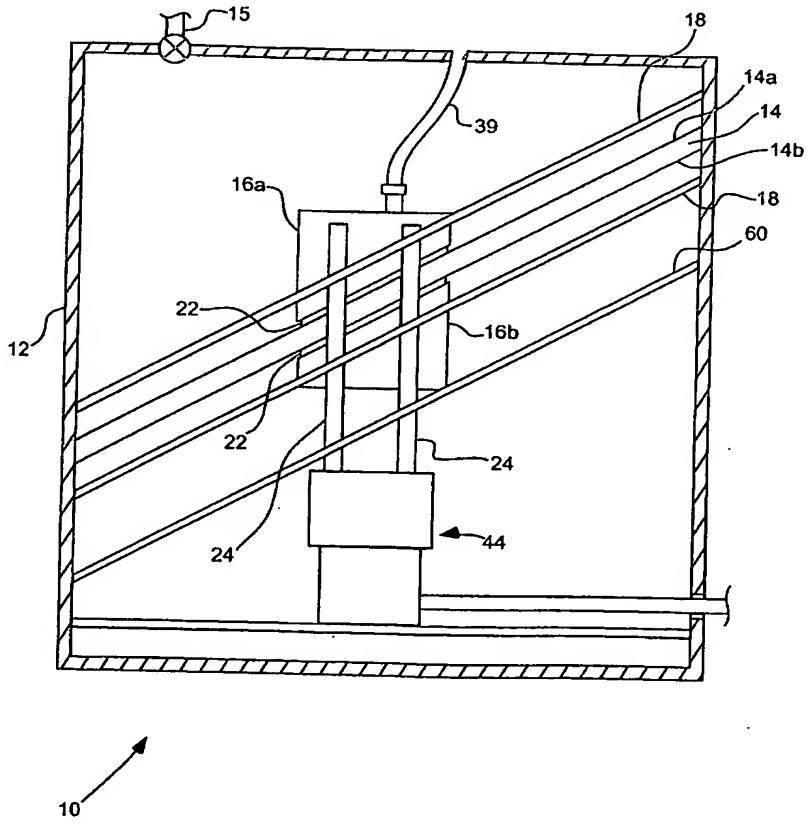
(54) Title: PRESSURE DIFFERENTIAL-DRIVEN ENGINE



(57) Abstract: A pressure differential-driven engine (10) includes an outer pressurizable enclosure (12). A pressure barrier plate (14) is disposed within the outer pressurizable enclosure and an actuator enclosure (16) is disposed adjacent the pressure barrier plate and has an actuator (17) disposed therein. The actuator has a high pressure exposure surface (30) forming an oblique angle with respect to the pressure barrier plate. The pressure barrier plate, a bottom of the actuator, and the actuator enclosure cooperatively define a pressurizable cavity (34) cyclable between a first, high pressure state, and a second, low pressure state. The actuator and actuator enclosure are collectively slidable relative to the barrier plate in reaction to cycling of the pressurizable cavity between the first and second pressure states to produce usable translational energy.

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